

## 606 MISCELLANEOUS GUIDERAILS

### 606.01 PARK TYPE WOODEN GUIDERAIL

**(A) DESCRIPTION.** Work consists of the construction of a rough sawn timber guard rail to the dimensions and to the lines and grades as indicated on the contract drawings.

**(B) MATERIALS.** The timber for rails and posts shall be dense southern pine or dense douglas fir, of minimum stress grade 1400f, rough sawn, scanting not exceeding 12 inch in either dimension, and pressure treated. No boxed heart pieces shall be allowed for posts and rails of douglas fir. Boxed heart pieces are defined as timber so sawed that at any point in the length of a sawed piece the pith lies entirely within the four faces. The timber shall be air seasoned or artificially seasoned until the amount of moisture in the wood will not prevent the adequate penetration and retention of the specified amount of preservative.

Pressure treatment shall be with pentachlorophenol petroleum solution in accordance with AWWA C14, with a minimum net retention of 0.4 pound per cubic foot. The pentachlorophenol solution shall have a minimum of 5 per cent pentachlorophenol, meeting the requirements of AASHTO M 133 (AWPA-P8), in an oil-base vehicle, meeting the requirements of AASHTO M 133, and as nearly colorless as obtainable.

All assembly hardware shall be hot dipped galvanized steel meeting the requirements of AASHTO M 232. The bolts shall be 5/8 inch diameter by 14 inch steel carriage bolts with hexagonal nuts. The washers shall be 14 gage steel, 1-1/2 inch diameter with a 3/4 inch hold.

No painting or staining of posts will be required.

**(C) CONSTRUCTION REQUIREMENTS.** Excavation for posts shall be roughly circular and shall be of sufficient diameter to permit thorough tamping of the backfill. Backfill in all cases shall be made with approved embankment material and shall be thoroughly compacted by tamping to obtain as rigid an installation as possible.

All posts shall be plumb and shall be erected to the lines and grades indicated on the contract plans. The top inside edges of all posts shall be within 1/4 inch of their correct positions.

All surfaces and holes in post and rail members resulting from cutting and boring made necessary during construction shall be thoroughly swabbed with preservative solution before the rails are erected.

Rails shall be assembled and bolted to the posts with one 5/8 inch steel carriage bolt.

The connecting bolts shall not be final tightened until the alignment of the rails has been approved by the Engineer. After final tightening of the nuts, the projecting threads on the bolts shall be burred to prevent removal.

**(D) MEASURE AND PAYMENT.** The unit of measure for Park Type Wooden Guard Rail will be the linear foot. The actual number of linear feet installed, measured along the front face of the top rail, will be paid for at the contract unit price per linear foot, which payment will include excavation and disposal of material, erection, backfilling, pressure treatment, and all labor, materials, tools, equipment and incidentals necessary to complete the work.